

**IN THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Previously Presented) An arrangement in a mechanical shaft seal, comprising:  
a first sliding surface part rotating with a shaft in relation to a frame; and  
a second sliding surface part fastened to at least one of the frame or a separate frame part that is non-rotatable in relation thereto,

wherein:

the first sliding surface part and the second sliding surface part are provided with sliding surfaces pressed against one another,

a first additional part is arranged to connect the first sliding surface part to at least one of the shaft and a first insertion part fastened to the shaft and is configured to rotate therewith in order to transfer the rotating motion from the shaft to the first sliding surface part,

a second additional part is arranged to connect the second sliding surface part to the frame or at least to one second insertion part connected to the frame in order to prevent the rotation of the second sliding surface part in relation to the frame, and

at least one of the first additional part arranged to transfer the rotation torque of at least one of the shaft and the second additional part receiving torque is a super elastic memory metal element arranged to bend within the limits of the reversible deformation of the material.

2. (Previously Presented) The arrangement of claim 1, wherein all the first and second additional parts are memory metal elements.

3. (Previously Presented) The arrangement of claim 1, wherein all the first and second additional parts are pins.

4. (Previously Presented) The arrangement of claim 1, wherein all the first and second additional parts are threaded pins.

5. (Previously Presented) The arrangement of claim 1, wherein all the first and second additional parts are plates.
6. (Previously Presented) The arrangement of claim 1, wherein all the first and second additional parts are rings.
7. (Previously Presented) The arrangement of claim 1, wherein the first and second additional parts are machining features of at least one of the first sliding surface part and the second sliding surface part.
8. (Previously Presented) The arrangement of claim 1, wherein the arrangement further comprises at least one spring, which is arranged to press opposite sliding surfaces of the first sliding surface part and the second sliding surface part against one another.
9. (Previously Presented) The arrangement of claim 8, wherein the second insertion part is movably fastened in the longitudinal direction of the shaft to the frame, which is connected to the second sliding surface part which is pressed using the spring against the second sliding surface part, the sliding surface of the spring being further pressed against the sliding surface of the first sliding surface part.